

**Official**

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a data field comprising:

a destination identification corresponding to one of the physical end nodes of the plurality of physical end nodes, said one of the physical end nodes being a destination for the IP packet; and

user data;

sending the IP packet over a first RF network to the first access point;

wirelessly transmitting, by the first access point, the IP packet to a second access point;

alternatively transmitting by the first access point the IP packet to a second network, the second network being wired;

decoding, by the plurality of physical end nodes, the data field of the IP packet; and

determining by each of the plurality of physical end nodes whether it is the destination for the IP packet.

22. (AMENDED) The method of claim 21 wherein the step of determining is accomplished by each of the physical end nodes comparing their own identity with the destination identification in the user data of the IP packet.

23. (AMENDED) The method of claim 21 further comprising the step of:

processing the IP packet by the physical end node that is the destination for the IP packet.

24. (AMENDED) The method of claim 21 further comprising:
determining by the plurality of physical end nodes that are
not the destination of the packet that the IP packet is not for
them.

25. (AMENDED) The method of claim 24 further comprising:
ignoring the IP packet by the physical end nodes that are
not the destination of the packet.

26. (AMENDED) The method of claim 21 wherein the step of
sending is accomplished by using internet protocol routing.

27. (AMENDED) The method of claim 21 wherein the step of
transmitting by the access point is transmitting by the access
point via a wireless link.

28. (AMENDED) A RF network comprising:
a wired network;
a first access point connected to the wired network and
operable for communication via a first wireless link;
a first plurality of physical end nodes communicating with
the first access point via the first wireless link, sharing a
first virtual internet protocol address and having separate
identifications; and
a second access point connected to the wired network and to
the first access point via a second wireless link.

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B 29. (AMENDED) The RF network of claim 28 further comprising: a second plurality of physical end nodes communicating with the second access point via the second wireless link, sharing a second virtual internet protocol address and having separate identifications.
